

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade name BPS 7317

Article-no 7317

1.2 Relevant identified uses of the substance or mixture and uses advised against

Product type Lime deposit remover.

1.3 Details of the supplier of the safety data sheet

SDS created by Intersolia Sweden AB

Manufacturer Trion Tensid AB

Street address Svederusgatan 1-3
SE-754 50 Uppsala

Telephone +46 18 15 61 90

Fax +46 18 69 66 27

Email info@trion.se

1.4 Emergency telephone number

Available outside office hours Yes

Emergency phone number 999

Other

Contact person: William Stomilovic
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SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008, Annex VI

Classification Skin corrosion, hazard category 1A

Hazard statements H314

2.2 Label elements

GHS labeling of the substance (in accordance with Regulation (EC) No 1272/2008, Annex VI)

Pictogram



Signal word Danger

Hazard statements H314 Causes severe skin burns and eye damage.

Precaution statements P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor/
P363 Wash contaminated clothing before reuse.
P405 Store locked up.

2.3 Other hazards

Not applicable

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Chemical name	CAS No. EC No. REACH No.	Concentration	Classification	H-phrase
Phosphoric acid	7664-38-2 231-633-2 01-2119485924-24-	10 - 30%	Skin Corr. 1B	H314
Hydrochloric acid...%	7647-01-0 231-595-7 01-2119484862-27-	<20%	Skin Corr. 1A, Acute Tox. 3 - inhalation	H314, H331

Substance additional information For the full text of the H phrases mentioned in this Section, see Section 16.

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures

Rinse the skin and eyes immediately with plenty of water. Contact a doctor in the event of any wounds, even if the injury appears minor.

Inhalation	Fresh air and rest.
Skin contact	Wash contaminated skin immediately with water. Remove contaminated clothing immediately and continue washing. If symptoms persist, call a physician.
Eye contact	Rinse immediately with a gentle, warm jet of water or eye wash for several minutes. If easy to do, remove contact lens, if worn. Keep eyelids wide apart. Visit a doctor or hospital immediately. Continue to rinse during transport.
Ingestion	If the injured person is fully conscious, give him/her a couple of glasses of milk or water

immediately. DO NOT INDUCE VOMITING! Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation	Fumes can have a strong irritant effect.
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Skin contact	Corrosive to strongly corrosive.
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Eye contact	Permanent damage to vision, blindness.
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Ingestion	Harmful: possible risk of irreversible effects if swallowed.
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4.3 Indication of any immediate medical attention and special treatment needed

Ensure that eyewash stations and safety showers are close to the workstation location.

SECTION 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media	carbon dioxide (CO ₂) or dry chemical. Fire extinguishing methods: Water must only be used by firefighters.
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Unsuitable extinguishing media	Do not use a direct jet of water.
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5.2 Special hazards arising from the substance or mixture

Non-flammable.

5.3 Advice for firefighters

Special protective equipment for fire-fighters	In the event of fire, wear self contained breathing apparatus. Wear suitable protective clothing.
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Other

Containers in the vicinity of fire should be moved immediately or cooled with water.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use protective equipment as specified in section 8 of SDS. Avoid contact with: Skin and eyes.

6.2 Environmental precautions

Prevent spreading by banking up with sand, soil or other suitable material. Prevent major discharges to drains, groundwater and surface water. In the event of major discharges into water, contact the waterworks or sewage works.

6.3 Methods and material for containment and cleaning up

Bank up or absorb spilled fluid using sand, soil or some other suitable material.
Rinse clean with plenty of water. In the event of major spillages, contact the emergency services.

6.4 Reference to other sections

Personal protection see section 8 and for disposal see section 13.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Preventive handling precautions Use suitable protective equipment to prevent skin and eye contact. Wear suitable protective clothing to prevent contact with the skin. Do not handle the product in the vicinity of oxidising substances and strong bases.

General hygiene Handle in accordance with good industrial hygiene and safety practice. When using, do not eat, drink or smoke.

7.2 Conditions for safe storage, including any incompatibilities

Avoid contact with oxidising substances and strong bases. Plastic packaging. Keep tightly closed in a dry, cool and well-ventilated place. Store in a locked area that is inaccessible to children.

7.3 Specific end use(s)

This product should only be used for those uses described in section 1.2

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

National occupational exposure limits	Ingredient	CAS no.	EC No.	Exposure limit mg/m ³ -ppm		Short-term exposure limit mg/m ³ -ppm		Remark	Source	Year
	Phosphoric acid	7664-38-2	231-633-2	1	-	2	-	-	EH40/2005 Workplace exposure limits	-
	hydrochloric acid...%	7647-01-0	231-595-7	2	1	8	5	(gas and aerosol mists)	EH40/2005 Workplace exposure limits	-

8.2 Exposure controls

Technical precaution measures Ensure that eyewash stations and safety showers are close to the workstation location. The workplace and working methods are designed so as to prevent direct contact.

Eye / face protection Wear eye/face protection. Safety glasses with side-shields conforming to EN166.

Safety gloves Wear protective gloves.
When handling chemicals, only CE marked chemical-resistant gloves may be used. The gloves must conform to the standard EN 374. Wear protective gloves made of: butylrubber, nitrile rubber or natural rubber.

Other skin protection Wear suitable protective clothing to prevent contact with the skin. Remove contaminated clothing and shoes immediately. Wash contaminated clothing before re-use.

Respiratory protection Breathing protection only in those cases where aerosol or mist can be formed. Breathing protection with type B filter (grey).

Environmental exposure controls	Try to prevent the material from entering drains or water courses.
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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance, colour	colourless
Appearance, physical state	Not applicable
Auto-ignition temperature	Not applicable
Decomposition temperature	Not applicable
Density	1200 kg/m ³
Evaporation rate	Not applicable
Explosive properties	Not applicable
Flammability (solid, gas)	Not applicable
Flash point	Not applicable
Form	Low viscosity liquid.
Initial boiling point and boiling range	Not applicable
Melting point / freezing point	Not applicable
Odour	acidic
Odour treshold	Not applicable
Oxidising properties	Not applicable
Partition coefficient: n-octanol / water	Not applicable
pH concentrate	~0,50
pH in solution	~1,00
pH value	Not applicable
Relative density	Not applicable
Solubility	Miscible with water.
Solubility in water	100 %
Upper / lower flammability or explosive limits	Not applicable
Vapour density	Not applicable
Vapour pressure	Not applicable
Viscosity	Not applicable

9.2 Other information

Not applicable

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity

Not applicable

10.2 Chemical stability

Stable under normal usage and storage conditions.

10.3 Possibility of hazardous reactions

Reacts strongly with alkalis.

10.4 Conditions to avoid

Not applicable

10.5 Incompatible materials

The product reacts with calciferous materials and dissolves them.

10.6 Hazardous decomposition products

Not applicable

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

This product can cause skin and eye irritation as well as burns (corrosive effect).

Acute toxicity	Harmful: possible risk of irreversible effects if swallowed.
Serious eye damage / irritation	Permanent damage to vision, blindness.
Irritation	Fumes can have a strong irritant effect.
Corrosive effects	Corrosive to strongly corrosive.
Sensitisation	Not applicable
Mutagenicity	Not applicable
Carcinogenicity	Not applicable
Repeated dose toxicity	Not applicable
Reproductive toxicity	Not applicable
LD50 Oral	hydrochloric acid (rabbit): 900 mg/kg. Phosphoric acid (rat): 1530 mg/kg.
LD50 Dermal	hydrochloric acid (rabbit): >5010 mg/kg.

Phosphoric acid (rabbit): 2740 mg/kg.

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

Local discharges of large volumes into aquatic environments can harm aquatic organisms.

Aquatic	Acute toxicity Temporary large discharges or frequent smaller discharges can have a harmful or destructive impact on the environment. Can change the water's pH.
Soil	Large volumes can be harmful to plants.
Acute fish toxicity	hydrochloric acid (LC50): (96 h) 232 mg/l. Phosphoric acid (LC50): (96 h) 138 mg/l.
Acute crustacean toxicity	hydrochloric acid (EC50): (48 h) > 56 mg/l.

12.2 Persistence and degradability

The product is easily biodegradable.

12.3 Bioaccumulative potential

Non bio-accumulable in aquatic environments.

12.4 Mobility in soil

Not applicable

12.5 Results of PBT and vPvB assessment

Not applicable

12.6 Other adverse effects

Not applicable

Other

This assessment is based on the properties of the individual components.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Disposal considerations	Local provisions and EU provisions must be followed during waste handling. Containers with residual content constitute hazardous waste. The company is affiliated to REPA.
Packaging	Do not use metal containers. Packages can be cleaned and recycled.

Other

Waste management	The Waste Regulations 2011 No. 988 H 8 Corrosive: The waste contains a substance or preparation that can damage living tissue in the event of contact.
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Waste code (EWC) 20 01 14* acids.

Additional waste information The waste code (EWC) is a recommendation. In the event of non-compliant handling, the end user is personally responsible for a suitable EWC code.

SECTION 14. TRANSPORT INFORMATION

14.1 UN number

3265

14.2 UN proper shipping name

Name CORROSIVE ACIDIC ORGANIC LIQUID, N.O.S. (Phosphoric acid and hydrochloric acid)

IMDG proper shipping name CORROSIVE ACIDIC ORGANIC LIQUID, N.O.S. (Phosphoric acid and hydrochloric acid)

14.3 Transport hazard class(es)

Label 8

ADR / RID Class 8

ADR / RID Classification code C3

ADR / RID hazard identification number 80

IMDG Class 8

IMDG Marine Pollutant NO

IMDG EmS F-A, S-B

IATA Class 8

14.4 Packing group

III

14.5 Environmental hazards

Not applicable

14.6 Special precautions for user

Tunnel restriction code: E

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations Regulation (EC) No 1907/2006 of the European Parliament and of the Council, (REACH). European Parliament and Council Regulation (EC) No. 1272/2008, CLP.

Commission Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). Annex II SDS.
Regulation (EC) No 648/2004 of the European Parliament and of the council on detergents.

National regulations

EH40/2005 Workplace exposure limits
Waste ordinance (2011:927).
MSBFS 2015:1 Regulations regarding the transport of hazardous goods by road and off road (ADR-S).

15.2 Chemical safety assessment

Not applicable

SECTION 16. OTHER INFORMATION

Changes to previous revision

Changes are made in the following sections: 2, 3, 11, 12, 13, 15, 16.

References to key literature and data sources

Regulation (EC) No 1907/2006 of the European Parliament and of the Council, (REACH).
Regulation (EC) No 1272/2008 of the European Parliament and of the Council. .
Commission Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). Annex II SDS.
Regulation (EC) No 648/2004 of the European Parliament and of the council on detergents.
EH40/2005 Workplace exposure limits
Waste ordinance (2011:927).
MSBFS 2015:1 Regulations regarding the transport of hazardous goods by road and off road (ADR-S).
www.prevent.se
C&L Inventory database
Information also obtained from the constituent substances' safety data sheets.

Phrase meaning

Acute Tox. 3 - inhalation - Acute toxicity, inhalation, hazard category 3
Skin Corr. 1A - Skin corrosion, hazard category 1A
Skin Corr. 1B - Skin corrosion, hazard category 1B
H314 - Causes severe skin burns and eye damage.
H331 - Toxic if inhaled.